

73748-3

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, D.C. 20460-0001

OFFICE OF CHEMICAL SAFETY  
AND POLLUTION PREVENTION

May 1, 2013

Mrs. Jane Miller  
Consultant/Agent for Univar USA, Inc.  
c/o BIOLOGIC Inc.  
115 Obtuse Hill Road  
Brookfield, CT 06804-3223

**Subject: Amended Reregistration Label**  
**Product Name: KONTROL 2-2**  
**EPA Registration Number: 73748-3**  
**EPA Decision Number(s): D410105 & D413140**  
**Your Resubmissions Dated September 17, 2012 & April 10, 2013**

Dear Mrs. Miller:

The Agency, in accordance with the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), as amended, has completed reviewing all of the information submitted with your application to support the reregistration of the referenced product in connection with the **REDs for Permethrin and Piperonyl Butoxide**, and has concluded that your submission is acceptable. In addition, please note that the record for this product currently contains the CSF listed below. Any previously dated CSFs are superseded.

- Basic CSF, dated March 2, 2011
- Alternate CSF #1, dated July 30, 2010

**PLEASE NOTE:** This product is not being reregistered under sections 3(c)5 and 4(g) of FIFRA at this time.

A copy of your label stamped "Accepted" is enclosed for your records. Products shipped after 12 months from the date of this amendment or the next printing of the label whichever occurs first, must bear the new revised label. Your release for shipment of the product bearing the amended label constitutes acceptance of these conditions. If these conditions are not complied with, the registration will be subject to cancellation in accordance with section 6(e) of FIFRA.

If you have any questions about this letter, please contact Mr. Carmen J. Rodia, Jr. at (703) 306-0327 or via e-mail at [Rodia.Carmen@epa.gov](mailto:Rodia.Carmen@epa.gov) or Mr. Richard J. Gebken at (703) 305-6701 or via e-mail at [Gebken.Richard@epa.gov](mailto:Gebken.Richard@epa.gov) during the hours of 9:00 A.M. to 5:30 P.M. EST.

Sincerely Yours,

A handwritten signature in black ink that reads "Richard J. Gebken".

Richard J. Gebken  
Product Manager (10)  
Insecticide Branch  
Registration Division (7504P)

Enclosure: Label Stamped "Accepted," May 1, 2013  
073748-00003 D410105 & D413140

# [MASTERLINE] KONTROL 2 - 2 [For Mosquitoes, Flies and Gnats]

A Quick Knockdown, Low Odor, Non-Corrosive Synergized Synthetic Pyrethroid for the Control of Adult Mosquitoes in Residential, Recreational, and Other Areas. Also for Use Against Biting and Non-Biting Midge and Black Flies.

For use only by federal, state, tribal, or local governmental officials responsible for public health or vector control, or by persons certified in the appropriate category or otherwise authorized by the state or tribal lead pesticide regulatory agency to perform adult mosquito control applications, or by persons under their direct supervision.

**ACTIVE INGREDIENTS:**

\*Permethrin ..... 2.0%  
\*\*Piperonyl Butoxide ..... 2.0%

**OTHER INGREDIENTS:** ..... 96.0%

Contains Petroleum Distillates

TOTAL..... 100.0%

\*(3-phenoxyphenyl)methyl(+/-)Cis/trans 3-(2,2-dichloroethenyl)2,2-Dimethyl cyclopropanecarboxylate  
Cis/trans ratio: min. 35% (+/-) cis and max. 65% (+/-) trans

\*\* (butylcarbityl)(6-propylpiperonyl) ether and related compounds

Contains 0.144 pounds of Permethrin and 0.144 pounds of Piperonyl Butoxide per gallon

ACCEPTED  
May 1, 2013  
Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under:

**KEEP OUT OF REACH OF CHILDREN  
CAUTION**

See [Side] [Back] [Panel] [Inside Attached Booklet] For Additional Precautionary Statements

73748-3

“PRECAUCION AL USUARIO: Si usted no lee ingles, no use este producto hasta que la etiqueta haya sido explicado ampliamente”

FIRST AID	
<b>If in Eyes:</b>	Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.
<b>If Swallowed:</b>	Immediately call a poison control center or doctor. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give any liquid to the person. Do not give anything by mouth to an unconscious person.
<b>If on Skin or Clothing:</b>	Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 - 20 minutes. Call a poison control center or doctor for treatment advice.
<b>If Inhaled:</b>	Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control center or doctor for further advice
HOTLINE NUMBER	
Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For additional information on this pesticide product (including health concerns, medical emergencies, or pesticide concerns), you may call 1-800-xxx-xxxx, twenty-four (24) hours a day, seven (7) days per week.	
Note to Physician: Contains petroleum distillates. Vomiting may cause aspiration pneumonia.	

NET CONTENTS:

2.5 GAL \_\_\_\_\_ 30 GAL \_\_\_\_\_ 55 GAL \_\_\_\_\_ 275 GAL \_\_\_\_\_

## PRECAUTIONARY STATEMENTS

### HAZARDS TO DOMESTIC ANIMALS AND HUMANS

Contains Petroleum Distillate. Causes moderate eye irritation. Avoid contact with eyes or clothing. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Wear long-sleeved shirt and long pants, socks and shoes, and chemical-resistant gloves (such as barrier laminate, nitrile rubber, neoprene rubber, or viton). Remove contaminated clothing and wash before reuse.

#### Personal Protective Equipment (PPE)

Some materials that are chemical-resistant to this product are barrier laminate, nitrile rubber greater or equal to 14 mils or neoprene rubber greater or equal to 14 mils. If you want more options, follow the instructions for category E on an EPA chemical-resistance category selection chart.

**Mixers, loaders, applicators, and other handlers must wear:** Long-sleeve shirt; Long pants; Shoes and socks; Chemical-resistant gloves for all handlers except for applicators using motorized ground equipment, pilots and flaggers; and Chemical-resistant apron for mixers/loaders, persons cleaning equipment, and persons exposed to the concentrate.

See engineering controls for additional information.

#### User Safety Requirements:

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them.

#### User Safety Recommendations:

- Users should wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Users should remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Users should remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

#### Engineering Controls

Pilots must use an enclosed cockpit that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticide [40 CFR §1703240(d)(6)].

Human flagging is prohibited. Flagging to support aerial application is limited to use of the Global Positioning System (GPS) or mechanical flaggers.

### ENVIRONMENTAL HAZARDS

This pesticide is extremely toxic to aquatic organisms, including fish and aquatic invertebrates. To protect the environment, do not allow pesticide to enter or run-off into storm drains, drainage ditches, gutters, or surface waters. Applying this product in calm weather when rain is not predicted for the next 24 hours will help to ensure that wind or rain does not blow or wash pesticide off the treatment area. Rinsing application equipment over the treated area will help avoid run-off to water bodies or drainage systems.

This pesticide is highly toxic to bees exposed to direct treatment on blooming crops or weeds. Do not apply this product or allow it to drift on blooming crops or weeds while bees are actively visiting the treatment areas

### ENVIRONMENTAL HAZARDS FOR WIDE AREA MOSQUITO ADULTICIDE APPLICATIONS

This pesticide is extremely toxic to aquatic organisms, including fish and aquatic invertebrates. Run-off from treated areas or deposition of spray droplets into a body of water may be hazardous to fish and aquatic invertebrates.

When applying as a wide area mosquito adulticide, before making the first application in a season, it is advisable to consult with the state or tribal agency with primary responsibility for pesticide regulation to determine if other regulatory requirements exist.

When applying as a wide area mosquito adulticide, do not apply over bodies of water (lakes, rivers, permanent streams, natural ponds, commercial fish ponds, swamps, marshes or estuaries), except when necessary to target areas where adult mosquitoes are present, and weather conditions will facilitate movement of applied material away from the water in order to minimize incidental deposition into the water body.

### PHYSICAL AND CHEMICAL HAZARDS

Do not use, pour, spill or store near heat or open flame.

### DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

#### Use Restrictions:

- Apply this product only as specified on this label.
- Do not contaminate food or feedstuffs.
- Application of this product using hand-held cold or thermal fogging equipment is prohibited.
- This product is not for use in outdoor residential misting systems (indoor and outdoor) and metered release misting devices.
- Do not apply as a broadcast or spot treatment to indoor surfaces at residential sites, including nurseries, day-care centers, schools, hospitals, and nursing homes.
- Except when applying for mosquito control, do not enter or allow others to enter treated area until sprays have dried.
- Except when applying for mosquito control, do not enter or allow others to enter until vapors, mists, and aerosols have dispersed, and the treated area has been thoroughly ventilated.
- Except when applying for mosquito control, do not apply this product in a way that will contact workers or other persons, either directly or through drift.
- Application of this product is prohibited directly into sewers or drains, or to any area like a gutter where drainage to storm sewers, storm drains, water bodies, or aquatic habitat can occur. Do not allow this product to enter any drain during or after application.
- Remove pets, birds, and cover fish aquariums and ornamental fish ponds before spraying, and turn aquarium systems off prior to use.
- Except when applying for mosquito control, only protected handlers may be in the area during application.
- **Aerial application of this product is prohibited in the State of Florida unless specifically authorized by the Bureau of Entomology and Pest Control, Florida Department of Agriculture and Consumer Services.**

#### NON-AGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protections Standards for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries and greenhouses.

Keep unprotected persons out of treated areas until sprays have dried. Wear protective clothing when using or handling this product to help avoid exposure to eyes and skin. Eye protection, gloves, a long-sleeved shirt and long pants are recommended.

Allow spray to dry before allowing adults, children or pets on treated areas.

For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

## CONDITIONS AND RATES TO USE FOR MOSQUITO CONTROL

**KONTROL 2-2** may be applied undiluted as a non-thermal fog.

**KONTROL 2-2** is recommended for application in ultra low volume (ULV) non-thermal fog to control adult mosquitoes, midges and black flies in residential and recreational areas where these insects are a problem, such as, parks, campsites, woodlands, athletic fields, golf courses, residential areas, municipalities, gardens, playgrounds, recreational areas and overgrown waste areas. For best results, treat when insects are most active and conditions are conducive to keeping the fog close to the ground.

Both ground and aerial applications should be made when meteorological conditions are conducive to keeping the spray cloud close to the ground, such as when air temperature inversion is present. Applications during the cool hours of early morning or evening are preferable. Air temperatures should be greater than 50° F when conducting all types of applications. Application in calm air conditions is to be avoided. Apply when wind speed is greater than 1 mph. Do not apply when wind speeds exceed 10 mph. Applications cannot exceed the recommended rates.

For use by federal, state, tribal, or local government officials responsible for public health or vector control, or by persons certified in the appropriate category or otherwise authorized by the state or tribal lead pesticide regulatory agency to perform adult mosquito control applications, or by persons under their direct supervision.

Do not re-treat a site more than once in 3 days. Do not exceed 25 applications at 0.007 lbs. of permethrin per acre per application or 0.025 lbs. PBO per acre per application, or 0.18 lbs. of permethrin per acre per season or 2.0 lbs. PBO per acre per year. When targeting *Aedes Taeirorhynchus* and other difficult species, applications of PBO may be made up to 0.08 lbs. PBO per acre. More frequent treatments may be made to prevent or control a threat to public and /or animal health determined by a state, tribal or local health or vector control agency on the basis of documented evidence of disease causing agents in vector mosquitoes or the occurrence of mosquito-borne diseases in animal or human populations, or if specifically approved by the state or tribe during a natural disaster recovery effort.

**KONTROL 2-2** can be applied over specific growing crops and range grasses prior to harvest for the control of adult mosquitoes and biting flies within or adjacent to these areas. Application can only be made where the following crops are present:

- |  |                                    |
|--|------------------------------------|
| Alfalfa  | Garlic                             |
| Almonds  | Range Grasses                      |
| Apples   | Horseradish                        |
| Artichoke, globe                               | Leafy Vegetables (except Brassica) |
| Asparagus                                      | Lettuce, head                      |
| Avocado  | Mushrooms                          |
| Broccoli                                       | Onion, dry bulb                    |
| Brussels Sprouts                               | Peaches                            |
| Cabbage  | Pears                              |
| Cauliflower                                    | Pepper, bell                       |
| Celery   | Pistachio                          |
| Cherries                                       | Potato                             |
| Corn, fodder                                   | Soybeans                           |
| Corn, forage                                   | Spinach                            |
| Corn, grain (field and pop)                    | Tomatoes                           |
| Corn, stover                                   | Vegetable, cucurbits               |
| Corn, sweet kernel plus cob with husks removed | Walnuts                            |
| Eggplant                                       |                                    |
| Filbert  |                                    |

In the treatment of corrals, feedlots, animal confinements/houses, swine lots, poultry ranges and zoos, cover any exposed drinking water, drinking fountains and animal feed before application. Do not contaminate non-approved sites with spray drift.

**GROUND-BASED APPLICATION INSTRUCTIONS (Non-Thermal Application)**

**DROPLET SIZE CALIBRATION FOR GROUND-BASED APPLICATION EQUIPMENT:** Spray equipment must be adjusted so that the volume median diameter is less than 30 microns ( $Dv\ 0.5 < 30\ \mu m$ ) and that 90% of the spray is contained in droplets smaller than 50 microns ( $Dv\ 0.9 < 50\ \mu m$ ). Directions from the equipment manufacturer or vendor, pesticide registrant or a test facility using a laser-based measurement instrument must be used to adjust equipment to produce acceptable droplet size spectra. Application equipment must be tested at least annually to confirm that pressure at the nozzle and nozzle flow rate(s) are properly calibrated.

**Conditions and Rates to Use Kontrol 2-2 Undiluted for Mosquito Control**

Permethrin/PBO Lbs. A.I./Acre	Application Rates/Fluid Ounces To Use Per Minute				Fl. Oz. Kontrol 2-2 per Acre
	5 mph	10 mph	15 mph	20 mph	
0.007/0.007	18.8	Not Recommended	Not Recommended	Not Recommended	6.2
0.0035/0.0035	9.4	18.8	Not Recommended	Not Recommended	3.1
0.00175/0.00175	4.7	9.4	14.1	18.9	1.6

**ULV NON-THERMAL AEROSOL FOGGER APPLICATION:** To control mosquitoes, midges and black flies, apply **KONTROL 2 - 2** using any standard ULV ground applicator capable of producing a non-thermal aerosol spray. Apply the product undiluted at a flow rate of 4.7 to 18.8 fluid ounces per minute at an average vehicle speed of 5 mph. If different vehicle speed is used, adjust the rate accordingly. Vary flow rates accordingly to vegetation density and mosquito population. Use higher flow rates in heavy vegetation or when populations are high. An accurate flow control system must be used to ensure proper flow rate. May be applied at truck speeds of 5 to 20 mph.

**AERIAL APPLICATION INSTRUCTIONS**

The use of aircraft specially equipped and capable of applying ULTRA LOW VOLUMES of **KONTROL 2-2** may be necessary.

**DROPLET SIZE CALIBRATION FOR AERIAL APPLICATION EQUIPMENT**

**Aerial Application made at  $\leq 200$  above ground elevation:** Spray equipment must be adjusted so that the volume median diameter produced is less than 60 microns ( $Dv\ 0.5 < 60\ \mu m$ ) and that 90% of the spray is contained in droplets smaller than 100 microns ( $Dv\ 0.9 < 100\ \mu m$ ). The effects of flight speed and, for non-rotary nozzles, nozzle angle on the droplet size spectrum must be considered. Directions from the equipment manufacturer or vendor, pesticide registrant or a test facility using a wind tunnel and laser-based measurement instrument must be used to adjust equipment to produce acceptable droplet size spectra. Application equipment must be tested at least annually to confirm that pressure at the nozzle and nozzle flow rate(s) are properly calibrated.

**Aerial Application made at  $> 200$  above ground elevation:** Spray equipment must be adjusted so that the volume median diameter produced is less than 70 microns ( $Dv\ 0.5 < 70\ \mu m$ ) and that 90% of the spray is contained in droplets smaller than 145 microns ( $Dv\ 0.9 < 145\ \mu m$ ). The effects of flight speed and, for non-rotary nozzles, nozzle angle on the droplet size spectrum must be considered. Directions from the equipment manufacturer or vendor, pesticide registrant or a test facility using a wind tunnel and laser-based measurement instrument must be used to adjust equipment to produce acceptable droplet size spectra. Application equipment must be tested at least annually to confirm that pressure at the nozzle and nozzle flow rate(s) are properly calibrated.

Do not apply by fixed wing aircraft at a height less than 100 feet, or by helicopter at a height less than 75 feet unless specifically approved by the state or tribe based on public health needs.

Apply at a sufficient airspeed to deliver the appropriate amount of a.i./acre (from 0.00175 to 0.007 # a.i./acre) and to achieve the appropriate droplet range. Flight speed and nozzle orientation must be considered in determining droplet size. Apply when wind speed is greater than 1 mph.

The spray boom should be mounted on the aircraft as to minimize drift caused by wingtip or rotor vortices. The minimum practical boom length should be used and must not exceed 75% of the wing span or 90% rotor diameter.

## STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.

**Pesticide Storage and Spill Procedures:** Keep this product in its tightly closed original container when not in use. Store in a cool, dry (preferably locked) area that is designated for such insecticides and also inaccessible to children and animals. Avoid exposure to extreme temperatures. In case of spillage, soak up with absorbent material, such as sawdust or fullers' earth, sweep up and place in a labeled container and dispose of as follows.

**Pesticide Disposal:** Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

**Container Handling: Nonrefillable Container:** Metal or Plastic Container. Do not reuse or refill container.

Triple rinse or pressure rinse container (or equivalent) promptly after emptying. Offer for recycling, if available, reconditioning if appropriate, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities. Triple rinse as follows:

**Containers 5 gallons or less:** Empty the remaining contents into application equipment and drain for 10 seconds after the flow begins to drip. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Once cleaned, offer for recycling if available or reconditioning if appropriate, or puncture and dispose of in a sanitary landfill or by other procedures approved by State and local authorities. Do not cut or weld metal containers.

**Containers larger than 5 gallons:** Empty the remaining contents into application equipment. Fill the container ¼ full with water. Replace and tighten closures. Tip container on its side and roll back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Once cleaned, offer for recycling if available or reconditioning if appropriate, or puncture and dispose of in a sanitary landfill or by other procedures approved by State and local authorities. **Pressure rinse as follows**

**(all sizes):** Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container and rinse at about 40 PSI for at least 30 seconds. Drain for 10 seconds after the flow begins to drip.

**Refillable container:** Refill this container with pesticide only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller.

Return container to point of purchase for reuse with seal intact and in salable condition. Before refilling, inspect thoroughly for damage such as cracks, punctures, bulges, dents, abrasions, and damaged or worn threads on closure devices. After filling and before transporting, check for leaks. Do not refill or transport damaged or leaking container.

To clean the container before final disposal, empty the remaining contents from the container into application equipment or mix tank. Fill the container about 10 percent full with water. Agitate vigorously or recirculate water with pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing process two more times.

## BULK STORAGE AND DISPOSAL

### AGITATE BEFORE USE

Do not contaminate water, food or feed by storage or disposal. Open dumping is prohibited.

**Storage:** Ground water contamination may be reduced by diking and flooring of permanent liquid bulk storage sites with an impermeable material.

**Pesticide Disposal:** Pesticide spray mixture or rinsate that cannot be used according to label instructions must be disposed of according to Federal and local procedures under Subtitle C or the Resource Conservation and Recovery Act.

**NOTICE:** Buyer and user assume all risks and liability of use, storage and/or handling of this product not in accordance with the terms of this label.

**BUYER GUARANTEE LIMITED TO LABEL CLAIMS**

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EPA Registration No. 73748-3  
EPA Establishment No. XXXXX-XX-XXX